

What is claimed is:

1. A sensor, in particular a pressure sensor, having a housing (1); a housing interior (12) that contains a sensor element (9); electrical connecting elements  
5 (7) that are routed from the outside, through a housing part (2), and into the housing interior (19) and have connecting segments (17), which protrude into the housing interior on an inside (14) of the housing part (2) at respective entry points (15) and are electrically connected directly or indirectly to the sensor element; and having a protective covering (21) that covers the connecting  
10 segments and the sensor element,  
wherein a sealing material (20) is applied onto the connecting segments (17), at least in the region of the entry point (15) of the connecting segments (17) into the housing interior (19) and the part (13) of the inside (14) of the housing part (2) encompassing the entry point (15), and the covering (21) is applied onto the  
15 sealing material (20) and the connecting segments (17).
2. The sensor as recited in claim 1,  
wherein the sealing material (20) is a hardenable sealing material.
- 20 3. The sensor as recited in claim 1 or 2,  
wherein the sealing material (20) is a sealing adhesive.
4. The sensor as recited in claim 1,  
wherein the protective covering (21) is manufactured out of a gel, in particular a  
25 silicone gel.
5. The sensor as recited in claim 1,  
wherein the part (13) of the inside (14) of the housing part (2) encompassing the connecting segments (7) constitutes a recess for the sealing material, which  
30 recess has an inner wall (11) on the side oriented toward the sensor element (9) and an outer wall (12) on the side oriented away from it.

6. The sensor as recited in claim 5,  
wherein the outer wall (12) simultaneously constitutes a frame that laterally  
delimits the protective covering (21).

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7. The sensor as recited in one of claims 1 through 6,  
wherein the connecting segments (17) are electrically connected to the sensor  
element (9) by means of bonding wires.

10 8. The sensor as recited in one of claims 1 through 7,  
wherein the protective covering (21) completely covers the sealing material (20).

9. The sensor as recited in claim 8,  
wherein the protective covering (21) completely covers the ends of the  
15 connecting segments (17) protruding from the sealing material (20).

10. A method for manufacturing a sensor as recited in one of claims 1 through  
9,  
wherein in a first step, a sealing material (20) is applied onto the connecting  
20 segments (17), at least in the region of the entry point (15) of the respective  
connecting segments (17) into the housing interior and the part (13) of the inside  
(14) of the housing part (2) encompassing the entry point (15), and then in a  
second step, the protective covering (21) is applied onto the sealing material (20)  
and the connecting segments (17).